

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

**Taiwanese Patent Publication No. 383818****Heat Dissipation Fan Structure Having a Magnetically Positioning Device**

5           A heat dissipation fan structure having a magnetically positioning device comprises a motor rotor provided with a fan hub, a magnetically conductive metal plate, and a motor stator provided with at least one pole plate and an axial tube. The fan hub of the motor rotor forms a recession for mounting a metal shell, a annular  
10   magnet, and the magnetically conductive metal plate. The fan hub further has a shaft base in its central portion, and a shaft extended from the shaft base to insert into the axial tube of the motor stator. When the magnetically conductive metal plate is adhered to an inner surface of the recession, it can align with the pole plate of the motor  
15   stator, and be attracted by magnetic force generated from the pole plate in operation. As a result, the shaft base can be forced to contact with a bearing member in the axial tube to minimize a gap between the shaft base and the bearing member for maintaining rotation balance of the heat dissipation fan and increasing the rotating  
20   efficiency thereof.

[11]公告編號：383818

[44]中華民國 89年(2000) 03月01日

新型

全 4 頁

[51] Int.Cl 06: F04D29/58

[54]名稱：具磁性定位之散熱器風扇組結構

[21]申請案號：088202189

[22]申請日期：中華民國 88年(1999) 02月09日

[72]創作人：

謝新茂

屏東市工業六路東段六號

[71]申請人：

協禧電機股份有限公司

屏東市工業六路東段六號

[74]代理人：林鑑珠 先生

1

2

[57]申請專利範圍：

- 1.一種具磁性定位之散熱器風扇組結構，該風扇組之扇葉殼體內緣設置馬達殼，馬達殼內緣設置永久磁鐵，扇葉殼體之容置部中設置軸座，軸座中設置心軸，心軸可框設於散熱器之定子組的軸套中，其特徵在於：  
風扇組之扇葉殼體的容置部底端設置感磁金屬片，感磁金屬片位於定子組之上積磁軛片上方，而當電源導通線圈時，感磁金屬片可受到上積磁軛片磁性之吸引下降，而可以軸座抵靠於滾珠軸承上，以排除心軸樞設之間隙。
- 2.如申請專利範圍第1項所述之具磁性定位之散熱器風扇組結構，其中，感磁金屬片可成圓圈狀，並於其中設置穿孔，而能穿套過扇葉殼體之容置部底端。
- 3.如申請專利範圍第1項所述之具磁性定位之散熱器風扇組結構，其中，感磁金屬片之形狀，可以感磁材質之馬達殼一體衝壓成型，而直接成型於馬達殼之內

緣部中，且於感磁金屬片中設置穿孔，而可以穿套過軸座並固設於扇葉殼體之容置部底端。

- 4.如申請專利範圍第1項所述之具磁性定位之散熱器風扇組結構，其中，感磁金屬片之形狀，可於馬達殼之內緣部中形成相對的感磁金屬片。

圖式簡單說明：

第一圖：係本創作之立體分解圖。

第二圖：係本創作之組合剖視圖。

第三圖：係本創作另一形態風扇組之立體分解圖。

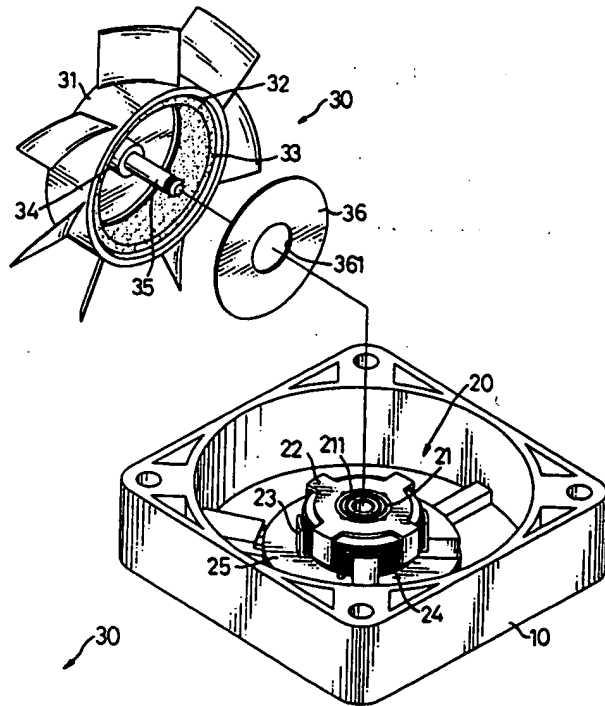
第四圖：係本創作又一形態風扇組之立體分解圖。

第五圖：係本創作再一形態風扇組之立體分解圖。

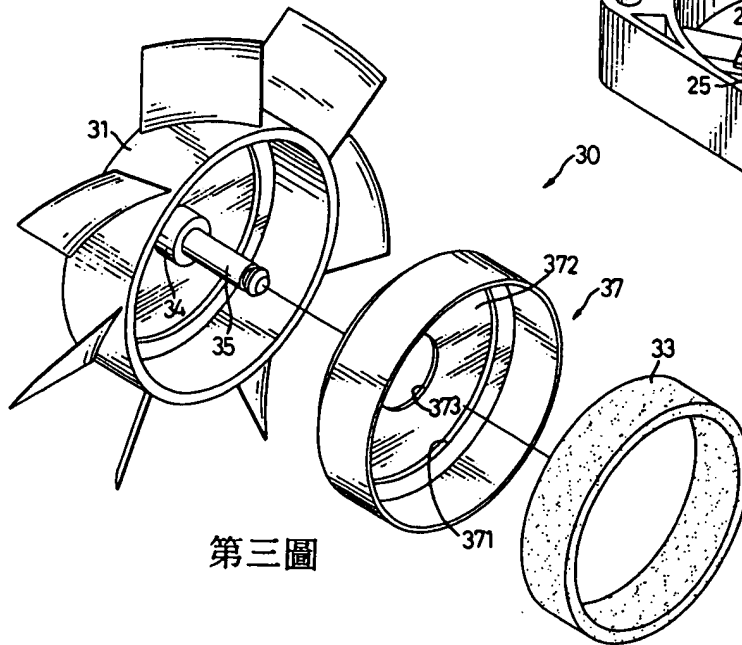
第六圖：傳統型散熱器之立體外觀圖。

第七圖：傳統型散熱器之組合剖視圖。

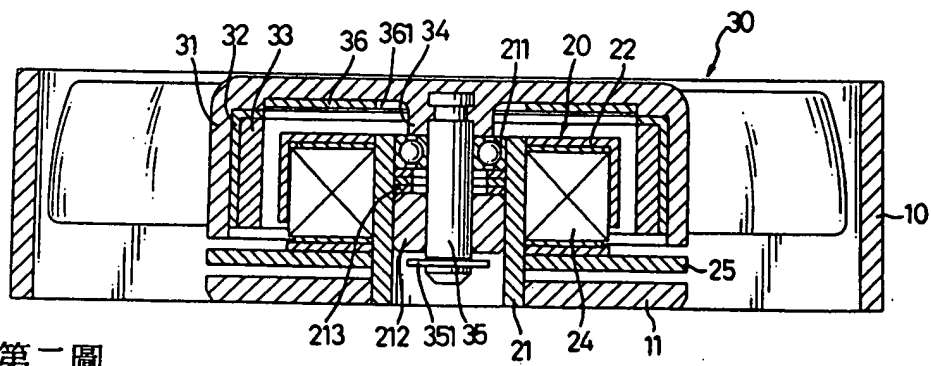
第一圖



第三圖

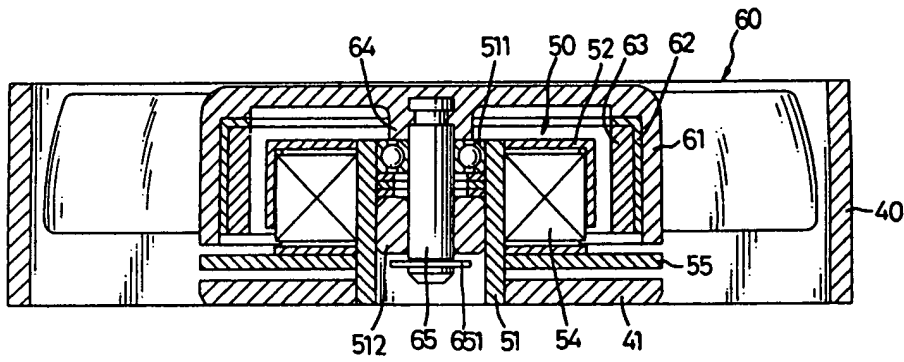
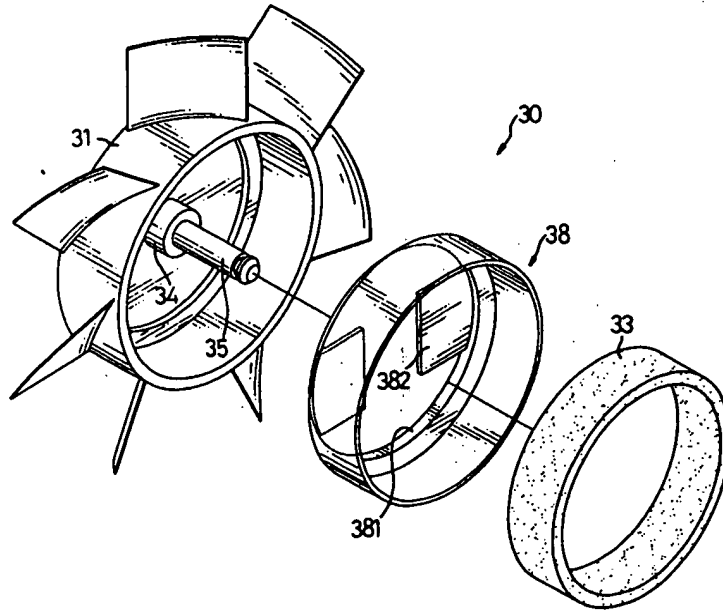


第二圖

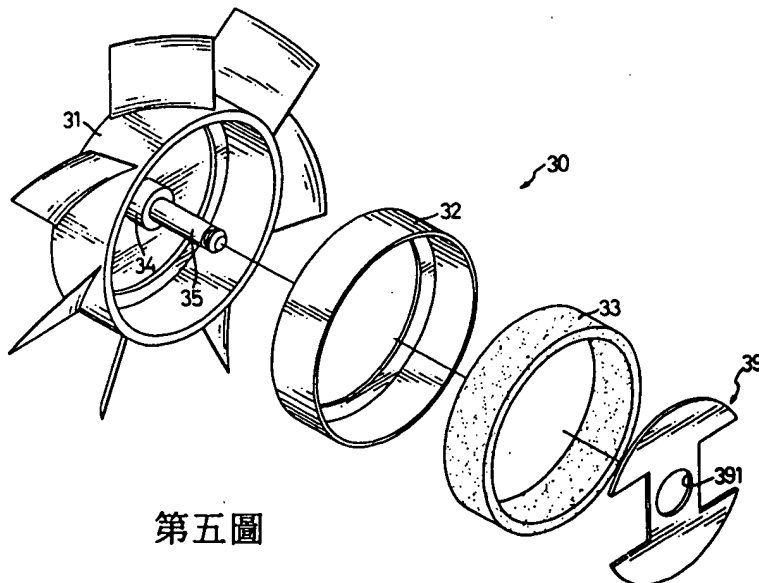


(3)

第四圖

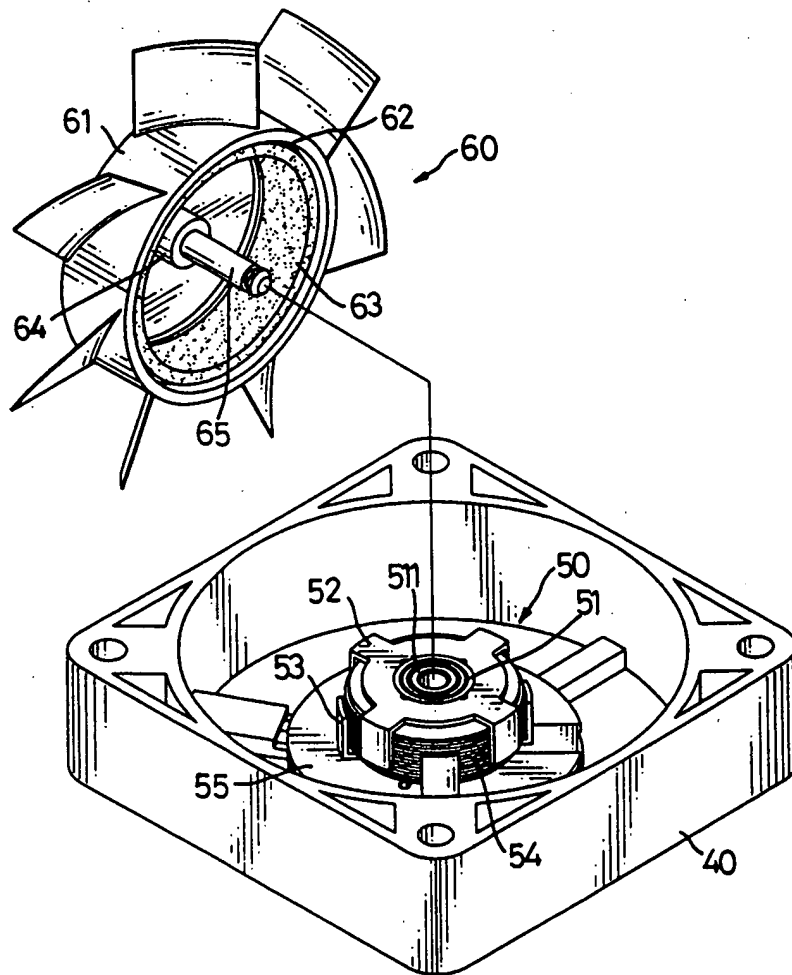


第七圖



第五圖

(4)



第六圖